HERITAGE-WTI, Inc.

1250 St. George Street
East Liverpool, Ohio 43920-3400
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Web Site: www.heritage-wti.com

ISO 9001 HERITAGE-WTI ISO 14001

January 31, 2010
VIA UPS and OEPA Air Services

Mr. George Czerniak, Chief (UPS)
U.S. EPA Region V
Air Enforcement and Compliance Assurance Branch
Mail Code AE-17J
77 West Jackson
Chicago, IL 60604

Ms. Pamela Korenewych (Air Services)
OEPA-DAPC-NEDO
2110 E. Aurora Road
Twinsburg, OH 44087

RE: HERITAGE-WTI, INC.
SEMI-ANNUAL STARTUP, SHUTDOWN, AND MALFUNCTION REPORT &
SEMI-ANNUAL EXCESS EMISSIONS AND CMS REPORT

Greetings:

Please find enclosed a written report entitled *Semi-Annual Startup, Shutdown, and Malfunction Report* and *Semi-Annual Excess Emission and CMS Report* for Heritage-WTI, Inc. These reports are required by 40 CFR 63.10 and cover the time period of July 1, 2009 through December 31, 2009.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are certain penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

~~Thank you and if you have any questions or comments, please call me at the above number.~~

Sincerely,

Frank Murray
General Manager
Heritage-WTI, Inc.

SEMI-ANNUAL STARTUP, SHUTDOWN, AND MALFUNCTION REPORT
&
SEMI-ANNUAL EXCESS EMISSION AND CMS REPORT

for

Heritage-WTI, Inc.

January 31, 2010

Section I – General Information

A. Facility Information

Facility ID:	02-15-02-0233
Responsible Official's Name / Title:	Frank Murray General Manager
Street Address:	1250 Saint George Street
City:	East Liverpool
State:	Ohio
Zip Code:	43920
Facility Name:	Heritage-WTI, Inc.
Facility Local Contact Name:	Vincent Waggle Environmental Engineer

B. Relevant standard(s) or other requirement(s) that is/are the basis for this report:

63.10(d)(5)(i) – Periodic Startup, Shutdown, and Malfunction Reports

C. Are you requesting a waiver of recordkeeping and/or reporting requirements under the applicable relevant standard(s) in conjunction with this report?

☐ Yes ☒ No

If you answered yes, you must submit the application for a waiver of recordkeeping and/or reporting requirements together with this report. The application for waiver should include whatever information you consider useful to convince the Administrator that a waiver of recordkeeping or recording is warranted. (63.10(f)(3)

Section II – Certification

Based upon information and belief formed after a reasonable inquiry, I as a responsible official of the above-mentioned facility, certify the information contained in this report is accurate and true to the best of my knowledge.

Frank Murray, General Manager Date: 1/25/10

Signature: Frank Murray

Section III – Startup, Shutdown, and Malfunction Reports

A. Startup, Shutdown, or Malfunction Actions

All actions taken by Heritage-WTI, Inc. during startup, shutdown, or malfunction events during the reporting period of July 1, 2009 through December 31, 2009 were consistent with the procedures specified in the facility's Startup, Shutdown, and Malfunction Plan.

B. Malfunctions

Please find in the table below a list of each malfunction, the durations, and a brief description of the type of malfunction that occurred during the reporting period of July 1, 2009 through December 31, 2009.

See next page for completed table

Name	Start Time	End Time	Cause (report)	Cause Description	(hr)	(min)	(sec)	Excess Emission	Parameter Monitor Exceedance	During Startup	During Shutdown	During Malfunction
THC	7/3/2009 10:33:23 AM	7/3/2009 11:03:21 AM	Malfunction - Lance Plugging	Solid material in tank waste causing lance plugging resulting in THC.	0	29	58	Yes	No	No	No	Yes
THC	7/4/2009 1:03:27 AM	7/4/2009 1:27:28 AM	Malfunction - Lance Plugging	Solid material in tank waste causing lance plugging resulting in THC.	0	24	1	Yes	No	No	No	Yes
THC	7/9/2009 7:18:28 PM	7/9/2009 8:17:28 PM	Malfunction - Waste Feed Anomaly	Normal waste feed caused unexpected and unpreventable THC event.	0	59	0	Yes	No	No	No	Yes
Scrubber ECIS Pressure	7/10/2009 11:37:31 AM	7/10/2009 12:59:37 PM	Shutdown - ECIS Maintenance	Unit shutdown to repair ECIS blower motor.	1	22	6	No	Yes	No	Yes	No
ESP Field #1 Current	7/19/2009 10:55:24 AM	7/19/2009 11:38:25 AM	Shutdown - ESP Maintenance	Unit shutdown to clean ESP field #1	0	43	1	No	Yes	No	Yes	No
SCC Pressure Using Seals	7/20/2009 8:19:18 PM	7/20/2009 8:19:33 PM	Malfunction - Waste Feed Anomaly	Normal waste feed caused unexpected and unpreventable pressure event.	0	0	15	No	No	No	No	No
THC	7/20/2009 8:25:22 PM	7/20/2009 9:25:22 PM	Malfunction - Prior AWFCO	Prior AWFCO caused inability to control THC.	1	0	0	Yes	No	No	No	Yes
ESP Not Ready	7/21/2009 3:07:45 PM	7/21/2009 3:10:07 PM	Malfunction - Instrument Malfunction	Controller on field three tripped off.	0	2	22	No	Yes	No	No	Yes
ESP Not Ready	7/21/2009 3:16:56 PM	7/21/2009 3:20:06 PM	Malfunction - Instrument Malfunction	Controller on field three tripped off.	0	3	10	No	Yes	No	No	Yes
Scrubber ECIS Flow	7/21/2009 4:07:23 PM	7/21/2009 4:12:23 PM	Malfunction - Carbon Bridge	Carbon bridge in feed hopper caused flow loss.	0	5	0	No	Yes	No	No	Yes

Name	Start Time	End Time	Cause (report)	Cause Description	(hr)	(min)	(sec)	Excess Emission	Parameter Monitor Exceedance	During Startup	During Shutdown	During Malfunction
ESP Not Ready	7/21/2009 5:45:21 PM	7/21/2009 5:47:09 PM	Malfunction - Instrument Malfunction	Controller on field three tripped off.	0	1	48	No	Yes	No	No	Yes
SCC Pressure Using Seals	7/24/2009 7:52:02 AM	7/24/2009 7:52:16 AM	Malfunction - Instrument Malfunction	Bad quench thermocouple cause ID Fan shutdown.	0	0	14	No	Yes	No	No	Yes
SCC Temperature	7/24/2009 8:04:28 AM	7/24/2009 8:16:32 AM	Malfunction - Prior AWFCO	Lost temp during prior AWFCO event.	0	12	4	No	Yes	No	No	Yes
THC	7/31/2009 3:39:22 PM	7/31/2009 4:16:21 PM	Malfunction - Waste Feed Anomaly	Normal waste feed caused unexpected and unpreventable THC event.	0	36	59	Yes	No	No	No	Yes
THC	8/11/2009 6:54:27 AM	8/11/2009 7:54:28 AM	Malfunction - Lance Plugging	Plugging in the sludge lance caused THC spike.	1	0	1	Yes	No	No	No	Yes
SCC Pressure Using Seals	8/12/2009 1:12:18 AM	8/12/2009 1:12:31 AM	Malfunction - Waste Feed Anomaly	Normal waste feed caused unexpected and unpreventable pressure event.	0	0	13	No	Yes	No	No	Yes
THC	8/12/2009 8:20:30 PM	8/12/2009 8:21:29 PM	Malfunction - Lance Slagging	Slag build-up on the hi-BTU lance caused poor combustion	0	0	59	Yes	No	No	No	Yes
SCC Pressure Using Seals	8/13/2009 10:38:29 AM	8/13/2009 10:38:32 AM	Malfunction - Kiln Fan/Burner	Gas burner blower malfunction caused MACT events.	0	0	3	No	Yes	No	No	Yes
SCC Pressure Using Seals	8/13/2009 10:38:36 AM	8/13/2009 10:38:47 AM	Malfunction - Kiln Fan/Burner	Gas burner blower malfunction caused MACT events.	0	0	11	No	Yes	No	No	Yes
SCC Pressure Using Seals	8/13/2009 10:39:34 AM	8/13/2009 10:39:37 AM	Shutdown - Burner	Gas burner blower malfunction caused	0	0	3	No	Yes	No	Yes	No

Name	Start Time	End Time	Cause (report)	Cause Description	(hr)	(min)	(sec)	Excess Emission	Parameter Monitor Exceedance	During Startup	During Shutdown	During Malfunction
			Malfunction	MACT events.								
Kiln Temperature	8/13/2009 10:43:30 AM	8/13/2009 11:43:30 AM	Shutdown - Burner Malfunction	Gas burner blower malfunction caused MACT events.	1	0	0	No	Yes	No	Yes	No
ESP Not Ready	8/14/2009 4:15:44 AM	8/14/2009 4:17:41 AM	Malfunction - ESP Malfunction	Electrical breaker on ESP field three caused field shutdown.	0	1	57	No	Yes	No	No	Yes
SCC Temperature	8/21/2009 1:32:25 PM	8/21/2009 2:14:33 PM	Malfunction - Instrument Malfunction	DCS card failure caused unit shutdown.	0	42	8	No	Yes	No	Yes	No
Kiln Temperature	8/21/2009 1:39:25 PM	8/21/2009 2:14:33 PM	Malfunction - Instrument Malfunction	DCS card failure caused unit shutdown.	0	35	8	No	Yes	No	Yes	No
THC	8/22/2009 3:54:24 AM	8/22/2009 4:55:23 AM	Malfunction - Waste Feed Anomaly	Normal waste feed caused unexpected and unpreventable THC event.	1	0	59	Yes	No	No	No	Yes
SCC Pressure Using Seals	8/23/2009 5:55:41 PM	8/23/2009 5:57:29 PM	Malfunction - ID Fan Shutdown	ID Fan main bus breaker tripped causing shutdown.	0	1	48	No	Yes	No	No	Yes
SCC Pressure Using Seals	8/29/2009 7:45:17 AM	8/29/2009 7:45:23 AM	Malfunction - Clinker	Ash fall from SCC to quench caused extreme system pressure.	0	0	6	No	Yes	No	No	Yes
THC	8/29/2009 7:49:22 AM	8/29/2009 8:34:22 AM	Malfunction - Clinker	Ash fall from SCC to quench caused THC event.	0	45	0	Yes	No	No	No	Yes
SCC Pressure Using Seals	9/2/2009 3:12:36 AM	9/2/2009 3:12:40 AM	Malfunction - Clinker	Ash fall from SCC to quench caused extreme system pressure.	0	0	4	No	Yes	No	No	Yes
SCC Pressure Using Seals	9/2/2009 3:12:43 AM	9/2/2009 3:13:00 AM	Malfunction - Clinker	Ash fall from SCC to quench caused extreme	0	0	17	No	Yes	No	No	Yes

Name	Start Time	End Time	Cause (report)	Cause Description	(hr)	(min)	(sec)	Excess Emission	Parameter Monitor Exceedance	During Startup	During Shutdown	During Malfunction
				system pressure.								
SCC Pressure Using Seals	9/4/2009 7:51:38 PM	9/4/2009 7:51:45 PM	Malfunction - Clinker	Ash fall from SCC to quench caused extreme system pressure.	0	0	7	No	Yes	No	No	Yes
THC	9/4/2009 7:55:24 PM	9/4/2009 8:56:21 PM	Malfunction - Prior AWFCO	Prior AWFCO caused THC spike and exceedance.	1	0	57	Yes	No	No	No	Yes
THC	9/8/2009 3:42:20 PM	9/8/2009 4:44:21 PM	Malfunction - Waste Feed Anomaly	Normal waste feed caused unexpected and unpreventable THC event.	1	2	1	Yes	No	No	No	Yes
SCC Pressure Using Seals	9/9/2009 10:53:26 AM	9/9/2009 10:55:49 AM	Malfunction - Instrument	Maintenance on pressure transmitters caused false pressure reading.	0	2	23	No	Yes	No	No	Yes
THC	9/11/2009 2:21:21 PM	9/11/2009 3:11:21 PM	Malfunction - Waste Feed Anomaly	Normal waste feed caused unexpected and unpreventable THC event.	0	50	0	Yes	No	No	No	Yes
Kiln Temperature	9/15/2009 4:56:27 AM	9/15/2009 5:13:24 AM	Malfunction - Lance Plugging	Plugging of the organic piping and lance inhibited flow and caused temp loss.	0	16	57	No	Yes	No	No	Yes
THC	9/17/2009 12:06:22 AM	9/17/2009 12:38:22 AM	Malfunction - Lance Slagging	Slag build-up on the hi-BTU and Organic lances caused poor combustion	0	32	0	Yes	No	No	No	Yes
THC	9/21/2009 9:46:21 PM	9/21/2009 10:04:22 PM	Malfunction - Lance Plugging	Plugging and purging of the sludge lance caused THC spike.	0	18	1	Yes	No	No	No	Yes
SCC Pressure Using Seals	9/21/2009 10:00:58 PM	9/21/2009 10:01:01 PM	Malfunction - Clinker	Ash fall from SCC to quench caused system over-pressure.	0	0	3	No	Yes	No	No	Yes

Name	Start Time	End Time	Cause (report)	Cause Description	(hr)	(min)	(sec)	Excess Emission	Parameter Monitor Exceedance	During Startup	During Shutdown	During Malfunction
THC	9/24/2009 3:30:20 PM	9/24/2009 4:29:21 PM	Malfunction - Waste Feed Anomaly	Normal waste feed caused unexpected and unpreventable THC event.	0	59	1	Yes	No	No	No	Yes
SCC Pressure Using Seals	10/8/2009 9:15:29 PM	10/8/2009 9:15:32 PM	Malfunction - Clinker	Ash fall from SCC to quench caused system over-pressure.	0	0	3	No	Yes	No	No	Yes
SCC Pressure Using Seals	10/8/2009 9:15:36 PM	10/8/2009 9:15:43 PM	Malfunction - Clinker	Ash fall from SCC to quench caused system over-pressure.	0	0	7	No	Yes	No	No	Yes
SDA ECIS Flow	10/9/2009 4:56:21 AM	10/9/2009 6:58:26 AM	Shutdown - ECIS Maintenance	Unit shutdown to repair ECIS carbon feed system.	2	2	5	No	Yes	No	Yes	No
SDA ECIS Pressure	10/9/2009 5:21:24 AM	10/9/2009 6:58:31 AM	Shutdown - ECIS Maintenance	Unit shutdown to repair ECIS carbon feed system.	1	37	7	No	Yes	No	Yes	No
SDA ECIS Flow	10/9/2009 7:02:21 AM	10/9/2009 7:27:25 AM	Shutdown - ECIS Maintenance	Unit shutdown to repair ECIS carbon feed system.	0	25	4	No	Yes	No	Yes	No
SDA ECIS Pressure	10/9/2009 7:02:26 AM	10/9/2009 7:20:23 AM	Shutdown - ECIS Maintenance	Unit shutdown to repair ECIS carbon feed system.	0	17	57	No	Yes	No	Yes	No
SCC Pressure Using Seals	10/14/2009 7:27:01 PM	10/14/2009 7:27:03 PM	Malfunction - Clinker	Ash fall from SCC to quench caused system over-pressure.	0	0	2	No	Yes	No	No	Yes
SDA ECIS Flow	10/17/2009 6:11:20 AM	10/17/2009 6:18:22 AM	Malfunction - Hopper Plugging	Wet carbon plugging SD ECIS hopper and screw causing low flow.	0	7	2	No	Yes	No	No	Yes
SDA ECIS Flow	10/17/2009 6:55:23 AM	10/17/2009 7:09:20 AM	Malfunction - Hopper Plugging	Wet carbon plugging SD ECIS hopper and screw causing low flow.	0	13	57	No	Yes	No	No	Yes

Name	Start Time	End Time	Cause (report)	Cause Description	(hr)	(min)	(sec)	Excess Emission	Parameter Monitor Exceedance	During Startup	During Shutdown	During Malfunction
SCC Pressure Using Seals	10/19/2009 12:13:02 AM	10/19/2009 12:13:04 AM	Malfunction - System In-leakage	System In-leakage prevented operator from being able to control pressure swings.	0	0	2	No	Yes	No	No	Yes
SCC Pressure Using Seals	10/19/2009 2:49:20 PM	10/19/2009 2:49:26 PM	Malfunction - System In-leakage	System In-leakage prevented operator from being able to control pressure swings.	0	0	6	No	Yes	No	No	Yes
SCC Pressure Using Seals	10/20/2009 7:42:06 PM	10/20/2009 7:42:11 PM	Malfunction - System In-leakage	System In-leakage prevented operator from being able to control pressure swings.	0	0	5	No	Yes	No	No	Yes
THC	10/21/2009 2:01:20 PM	10/21/2009 3:01:20 PM	Malfunction - Lance Slagging	Lance slagging caused poor atomization and THC event.	1	0	0	Yes	No	No	No	Yes
SCC Pressure Using Seals	10/23/2009 10:49:31 AM	10/23/2009 10:49:34 AM	Malfunction - Boiler Plugging	Slag build-up in boiler reduced the ability to control pressure	0	0	3	No	Yes	No	No	Yes
SCC Pressure Using Seals	10/24/2009 9:04:31 PM	10/24/2009 9:04:34 PM	Malfunction - Boiler Plugging	Slag build-up in boiler reduced the ability to control pressure	0	0	3	No	Yes	No	No	Yes
SCC Pressure Using Seals	10/24/2009 9:04:39 PM	10/24/2009 9:04:42 PM	Malfunction - Boiler Plugging	Slag build-up in boiler reduced the ability to control pressure	0	0	3	No	Yes	No	No	Yes
SCC Pressure Using Seals	10/24/2009 11:28:49 PM	10/24/2009 11:28:54 PM	Malfunction - Boiler Plugging	Slag build-up in boiler reduced the ability to control pressure	0	0	5	No	Yes	No	No	Yes
SCC Pressure Using Seals	10/25/2009 1:13:43 AM	10/25/2009 1:13:49 AM	Malfunction - Boiler Plugging	Slag build-up in boiler reduced the ability to control pressure	0	0	6	No	Yes	No	No	Yes
SCC Pressure	10/25/2009	10/25/2009	Malfunction -	Slag build-up in boiler	0	0	5	No	Yes	No	No	Yes

Name	Start Time	End Time	Cause (report)	Cause Description	(hr)	(min)	(sec)	Excess Emission	Parameter Monitor Exceedance	During Startup	During Shutdown	During Malfunction
Using Seals	2:11:39 AM	2:11:44 AM	Boiler Plugging	reduced the ability to control pressure								
SCC Pressure Using Seals	10/25/2009 4:14:40 AM	10/25/2009 4:14:48 AM	Malfunction - Boiler Plugging	Slag build-up in boiler reduced the ability to control pressure	0	0	8	No	Yes	No	No	Yes
SCC Pressure Using Seals	10/25/2009 4:27:22 AM	10/25/2009 4:27:26 AM	Malfunction - Boiler Plugging	Slag build-up in boiler reduced the ability to control pressure	0	0	4	No	Yes	No	No	Yes
SCC Pressure Using Seals	10/25/2009 6:50:42 AM	10/25/2009 6:50:44 AM	Malfunction - Boiler Plugging	Slag build-up in boiler reduced the ability to control pressure	0	0	2	No	Yes	No	No	Yes
THC	10/25/2009 10:25:22 AM	10/25/2009 11:21:23 AM	Malfunction - Lance Purging	Nitrogen purge on the sludge pump caused THC spike.	0	56	1	Yes	No	No	No	Yes
ESP Not Ready	10/25/2009 5:29:49 PM	10/25/2009 5:33:26 PM	Shutdown - Kiln Outage	Unit shutdown for Kiln Shell replacement	0	3	37	No	No	No	Yes	No
ESP Field #1 Current	10/25/2009 5:54:22 PM	10/25/2009 8:08:05 PM	Shutdown - Kiln Outage	Unit shutdown for Kiln Shell replacement	2	13	43	No	Yes	No	Yes	No
ESP Inlet Temperature	11/20/2009 9:24:01 AM	11/20/2009 9:24:01 AM	Malfunction - Kiln Drive Failure	Unit shutdown due to Kiln Drive failure	0	0	0	No	Yes	No	No	Yes
SCC Temperature	11/20/2009 10:28:00 AM	11/20/2009 12:04:00 PM	Malfunction - Kiln Drive Failure	Unit shutdown due to Kiln Drive failure	1	36	0	No	Yes	No	No	Yes
Kiln Temperature	11/20/2009 10:46:00 AM	11/20/2009 11:51:00 AM	Malfunction - Kiln Drive Failure	Unit shutdown due to Kiln Drive failure	1	5	0	No	Yes	No	No	Yes
THC	11/20/2009 2:36:00 PM	11/20/2009 3:32:00 PM	Malfunction - Waste Feed Anomaly	Normal waste feed caused unexpected and unpreventable THC event.	0	56	0	Yes	No	No	No	Yes

Name	Start Time	End Time	Cause (report)	Cause Description	(hr)	(min)	(sec)	Excess Emission	Parameter Monitor Exceedance	During Startup	During Shutdown	During Malfunction
SCC Temperature	11/20/2009 8:15:00 PM	11/20/2009 8:43:00 PM	Malfunction - ID Fan Shutdown	Lost OPL on ID Fan shutdown	0	28	0	No	Yes	No	No	Yes
RJ Blowdown Flow	11/20/2009 8:18:00 PM	11/20/2009 8:43:00 PM	Malfunction - ID Fan Shutdown	Lost OPL on ID Fan shutdown	0	25	0	No	Yes	No	No	Yes
Kiln Temperature	11/20/2009 8:23:00 PM	11/20/2009 8:43:00 PM	Malfunction - ID Fan Shutdown	Lost OPL on ID Fan shutdown	0	20	0	No	Yes	No	No	Yes
THC	11/20/2009 10:25:00 PM	11/20/2009 11:23:00 PM	Malfunction - Waste Feed Anomaly	Normal waste feed caused unexpected and unpreventable THC event.	0	58	0	Yes	No	No	No	Yes
THC	11/22/2009 4:36:00 AM	11/22/2009 5:11:00 AM	Malfunction - Waste Feed Anomaly	Normal waste feed caused unexpected and unpreventable THC event.	0	35	0	Yes	No	No	No	Yes
THC	11/24/2009 4:22:27 PM	11/24/2009 4:30:28 PM	Malfunction - Waste Feed Anomaly	Normal waste feed caused unexpected and unpreventable THC event.	0	8	1	Yes	No	No	No	Yes
SCC Pressure Using Seals	11/28/2009 4:49:23 AM	11/28/2009 4:49:27 AM	Malfunction - Clinker Fell	Ash fall from SCC to quench caused system over-pressure.	0	0	4	No	Yes	No	No	Yes
SCC Pressure Using Seals	11/28/2009 4:49:30 AM	11/28/2009 4:49:36 AM	Malfunction - Clinker Fell	Ash fall from SCC to quench caused system over-pressure.	0	0	6	No	Yes	No	No	Yes
Total PB Flow	12/1/2009 1:25:29 PM	12/1/2009 5:06:36 PM	Malfunction - Scrubber Maintenance	Unit shutdown to perform necessary scrubber maintenance	3	41	7	No	Yes	No	No	Yes
RJ Blowdown Flow	12/1/2009 3:29:28 PM	12/1/2009 3:34:28 PM	Malfunction - Scrubber Maintenance	Unit shutdown to perform necessary scrubber maintenance	0	5	0	No	Yes	No	No	Yes
THC	12/3/2009	12/3/2009	Malfunction -	Bulk feed blew up in	0	32	1	Yes	No	No	No	Yes

Name	Start Time	End Time	Cause (report)	Cause Description	(hr)	(min)	(sec)	Excess Emission	Parameter Monitor Exceedance	During Startup	During Shutdown	During Malfunction
	4:12:22 PM	4:44:23 PM	Waste Anomaly	feed chute causing THC spike.								
SDA ECIS Pressure	12/4/2009 4:55:26 PM	12/4/2009 5:56:31 PM	Malfunction - ECIS Repairs	Unit shutdown to perform ECIS screw repair	1	1	5	No	Yes	No	No	Yes
SCC Pressure Using Seals	12/8/2009 6:59:53 AM	12/8/2009 6:59:55 AM	Malfunction - Clinker Fell	Ash fall from SCC to quench caused system over-pressure.	0	0	2	No	Yes	No	No	Yes
THC	12/10/2009 3:36:21 AM	12/10/2009 4:11:22 AM	Malfunction - Waste Anomaly	Normal waste feed caused unexpected and unpreventable THC event.	0	35	1	Yes	No	No	No	Yes
SCC Pressure Using Seals	12/14/2009 9:37:42 PM	12/14/2009 9:37:45 PM	Malfunction - Clinker Fell	Ash fall from SCC to quench caused system over-pressure.	0	0	3	No	Yes	No	No	Yes
SCC Pressure Using Seals	12/14/2009 10:12:17 PM	12/14/2009 10:12:25 PM	Malfunction - Clinker Fell	Ash fall from SCC to quench caused system over-pressure.	0	0	8	No	Yes	No	No	Yes
SCC Pressure Using Seals	12/14/2009 10:12:27 PM	12/14/2009 10:12:33 PM	Malfunction - Clinker Fell	Ash fall from SCC to quench caused system over-pressure.	0	0	6	No	Yes	No	No	Yes
SCC Pressure Using Seals	12/15/2009 1:25:07 AM	12/15/2009 1:25:09 AM	Malfunction - Clinker Fell	Ash fall from SCC to quench caused system over-pressure.	0	0	2	No	Yes	No	No	Yes
SCC Pressure Using Seals	12/15/2009 1:25:12 AM	12/15/2009 1:25:15 AM	Malfunction - Clinker Fell	Ash fall from SCC to quench caused system over-pressure.	0	0	3	No	Yes	No	No	Yes
SCC Pressure Using Seals	12/19/2009 3:13:16 PM	12/19/2009 3:13:25 PM	Malfunction - Equipment	Slag Quench drain Valve stuck open causing seal loss.	0	0	9	No	Yes	No	No	Yes
SCC Pressure	12/19/2009	12/19/2009	Malfunction -	Slag Quench drain Valve	0	7	17	No	Yes	No	No	Yes

Name	Start Time	End Time	Cause (report)	Cause Description	(hr)	(min)	(sec)	Excess Emission	Parameter Monitor Exceedance	During Startup	During Shutdown	During Malfunction
Using Seals	3:13:36 PM	3:20:53 PM	Equipment	stuck open causing seal loss.								
SCC Pressure Using Seals	12/19/2009 3:21:04 PM	12/19/2009 3:21:08 PM	Malfunction - Equipment	Slag Quench drain Valve stuck open causing seal loss.	0	0	4	No	Yes	No	No	Yes
SCC Pressure Using Seals	12/19/2009 3:21:21 PM	12/19/2009 3:21:23 PM	Malfunction - Equipment	Slag Quench drain Valve stuck open causing seal loss.	0	0	2	No	Yes	No	No	Yes
SCC Pressure Using Seals	12/19/2009 3:21:36 PM	12/19/2009 3:21:51 PM	Malfunction - Equipment	Slag Quench drain Valve stuck open causing seal loss.	0	0	15	No	Yes	No	No	Yes
SCC Pressure Using Seals	12/19/2009 3:22:03 PM	12/19/2009 3:22:08 PM	Malfunction - Equipment	Slag Quench drain Valve stuck open causing seal loss.	0	0	5	No	Yes	No	No	Yes
SCC Temperature	12/19/2009 3:30:25 PM	12/19/2009 4:52:27 PM	Malfunction - Equipment	Slag Quench drain Valve stuck open causing seal loss.	1	22	2	No	Yes	No	No	Yes
SCC Pressure Using Seals	12/19/2009 3:34:14 PM	12/19/2009 3:34:25 PM	Malfunction - Equipment	Slag Quench drain Valve stuck open causing seal loss.	0	0	11	No	Yes	No	No	Yes
Kiln Temperature	12/19/2009 3:43:26 PM	12/19/2009 4:45:23 PM	Malfunction - Equipment	Slag Quench drain Valve stuck open causing seal loss.	1	1	57	No	Yes	No	No	Yes
Process Gas Flow	12/19/2009 3:49:26 PM	12/19/2009 4:37:25 PM	Malfunction - Equipment	Slag Quench drain Valve stuck open causing seal loss.	0	47	59	No	Yes	No	No	Yes
THC	12/20/2009 4:16:23 PM	12/20/2009 5:16:22 PM	Malfunction - Lance Plugging	Plugging in the sludge lance caused purge resulting in THC.	0	59	59	Yes	No	No	No	Yes
THC	12/22/2009	12/22/2009	Malfunction -	Normal waste feed	0	59	2	Yes	No	No	No	Yes

Name	Start Time	End Time	Cause (report)	Cause Description	(hr)	(min)	(sec)	Excess Emission	Parameter Monitor Exceedance	During Startup	During Shutdown	During Malfunction
	6:29:22 PM	7:28:24 PM	Waste Anomaly	caused unexpected and unpreventable THC event.								
SCC Pressure Using Seals	12/24/2009 9:57:42 AM	12/24/2009 10:04:24 AM	Malfunction - Equipment Problem	Air line to emergency water valve failed causing ID Fan Shutdown	0	6	42	No	Yes	No	No	Yes
SCC Pressure Using Seals	12/27/2009 8:55:09 AM	12/27/2009 8:55:15 AM	Malfunction - Clinker Fell	Ash fall from SCC to quench caused system over-pressure.	0	0	6	No	Yes	No	No	Yes
SCC Pressure Using Seals	12/27/2009 8:55:18 AM	12/27/2009 8:55:24 AM	Malfunction - Clinker Fell	Ash fall from SCC to quench caused system over-pressure.	0	0	6	No	Yes	No	No	Yes

C. Startup, Shutdown, or Malfunction Plan Revision History

DATE	Revision Number	Comment
9/30/2003	0	Initial Plan
2/27/2004	1	ESP OPLs added. Malfunction list updated.
6/23/2005	2	Revised section on operating modes.
10/27/2006	3	RCRA Permit modifications. Malfunction list updated.
3/15/2007	4	Malfunction list updated and comments added addressing instances beyond the operator's control.
6/6/2007	5	Malfunction list updated and further comments added addressing instances beyond the operator's control.
10/16/2007	6	Corrected minor deficiencies noted by OEPA.
9/1/2008	7	Revised to reflect facility name change
6/12/2009	8	This revision included, in Section 1.6.3.1, more detailed descriptions of the most common malfunction events that occur at the facility. It also included a description of data collection procedures during times when residence time expires while an exceedance event is taking place in Section 1.6.3.

SEMI-ANNUAL EXCESS EMISSION AND CMS REPORT

Section I – General Information

A. Facility Information

Facility ID:	02-15-0233
Responsible Official's Name / Title:	Frank Murray / Vice President & General Manager
Street Address:	1250 Saint George Street
City:	East Liverpool
State:	Ohio
Zip Code:	43920
Facility Name:	Heritage-WTI, Inc.
Facility Local Contact Name:	Local contact is the same information as given above.

B. Relevant standard(s) or other requirement(s) that is/are the basis for this report:

63.10(e)(3) – Excess Emissions and Continuous Monitoring System Performance Report

C. Are you requesting a waiver of recordkeeping and/or reporting requirements under the applicable relevant standard(s) in conjunction with this report?

☐ Yes ☒ No

If you answered yes, you must submit the application for a waiver of recordkeeping and/or reporting requirements together with this report. The application for waiver should include whatever information you consider useful to convince the Administrator that a waiver of recordkeeping or recording is warranted. (63.10(f)(3))

D. Check the box that corresponds to the reports you are submitting:

☐ Summary Report Only (Complete Sections II and IV)

☒ Excess Emission and CMS Performance Report and Summary Report (Complete Sections II, III, and IV).

Section II – Certification

Based upon information and belief formed after a reasonable inquiry, I as a responsible official of the above-mentioned facility, certify the information contained in this report is accurate and true to the best of my knowledge.

Frank Murray, General Manager Date: 1/26/10

Signature: Frank Murray

Section III – Excess Emissions and CMS Performance Report

A. Excess Emissions

1. Have any excess emissions or exceedances of a parameter occurred during this reporting period?
☒ Yes ☐ No

2. If you answered yes, complete the following table for each period of excess emissions and/or parameter monitoring exceedances, as defined in the relevant standard(s), that occurred during startups, shutdowns, and/or malfunctions of your affected source, or during periods other than startups, shutdowns, and/or malfunctions of your affected source. (63.10(c)(7)-(11))

See next page for completed table.

Name	Start Time	End Time	Cause (report)	Cause Description	Corrective Actions	(hr)	(min)	(sec)
THC	7/2/2009 9:49:24 PM	7/2/2009 10:19:23 PM	Operator Error - Feed Size	Too heavy of a waste feed caused THC exceedance.	Reduced charge sizes. Restart unit.	0	29	59
THC	7/3/2009 1:29:22 AM	7/3/2009 2:28:21 AM	Operator Error - Feed Size	Too heavy of a waste feed caused THC exceedance.	Reduced charge sizes. Restart unit.	0	58	59
THC	7/15/2009 1:26:23 PM	7/15/2009 2:22:23 PM	Operator Error- Feed Error	Improper drum feed caused THC exceedance.	Restarted unit. Reduced charge size.	0	56	0
SCC Temperature	7/17/2009 11:12:26 AM	7/17/2009 12:02:25 PM	Operator Error - Poor Operation	Operator did not properly maintain temperature.	Regained temperature. Restarted unit.	0	49	59
SCC Temperature	8/6/2009 8:35:23 PM	8/6/2009 8:49:26 PM	Operator Error - Poor Operation	Operator failed to maintain SCC temperature	Regain temperature. Restart unit	0	14	3
SCC Temperature	9/5/2009 11:11:25 PM	9/5/2009 11:22:27 PM	Operator Error - Poor Operation	Operator failed to adjust to falling SCC temperature.	Regain temperature and restarted unit.	0	11	2
SCC Pressure Using Seals	10/10/2009 6:56:20 AM	10/10/2009 6:56:26 AM	Operator Error- Feed Prep	Improperly prepared waste feed caused SCC Pressure exceedance.	Maintain draft. Improve communication.	0	0	6
THC	10/10/2009 7:00:21 AM	10/10/2009 7:07:24 AM	Operator Error- Feed Prep	Improperly prepared waste feed caused THC exceedance.	Restart unit. Improve communication.	0	7	3
THC	10/20/2009 10:32:21 PM	10/20/2009 11:33:20 PM	Operator Error- Feed Prep	Improperly prepared waste feed caused THC exceedance.	Reduce charge size. Restart unit.	1	0	59
SCC Pressure Using Seals	10/22/2009 6:37:46 AM	10/22/2009 6:37:53 AM	Operator Error- Feed Prep	Improperly prepared waste feed caused SCC Pressure exceedance.	Maintained draft using ID fan damper.	0	0	7
THC	12/3/2009 10:13:21 AM	12/3/2009 10:25:22 AM	Operator Error - Poor Operation	Operator fed waste at an inappropriate time.	Restarted unit. Reviewed operating guidance with operators.	0	12	1
THC	12/3/2009 10:33:24	12/3/2009 10:46:23	Operator Error -	Operator fed waste at an	Restarted unit. Reviewed operating	0	12	59

Name	Start Time	End Time	Cause (report)	Cause Description	Corrective Actions	(hr)	(min)	(sec)
	AM	AM	Poor Operation	inappropriate time.	guidance with operators.			
THC	12/7/2009 2:48:22 PM	12/7/2009 2:55:23 PM	Operator Error - Feed Prep	Poor feed prep caused THC event.	Remove slide gates on remaining containers.	0	7	1
SCC Pressure Using Seals	12/7/2009 6:25:37 PM	12/7/2009 6:25:43 PM	Operator Error - Feed Prep	Poor feed prep caused THC event.	Drop ring on remaining containers.	0	0	6
SCC Pressure Using Seals	12/7/2009 6:25:46 PM	12/7/2009 6:25:51 PM	Operator Error - Feed Prep	Poor feed prep caused THC event.	Drop ring on remaining containers.	0	0	5
SCC Pressure Using Seals	12/8/2009 2:42:25 AM	12/8/2009 2:42:27 AM	Operator Error - Feed Prep	Improper charge size caused THC event.	Reduce charge size.	0	0	2
SCC Pressure Using Seals	12/21/2009 9:04:22 AM	12/21/2009 9:04:25 AM	Operator Error- Feed Prep	Improperly prepared container feed caused THC spike.	Revised feed prep and restarted unit.	0	0	3
SCC Pressure Using Seals	12/21/2009 9:04:30 AM	12/21/2009 9:04:33 AM	Operator Error- Feed Prep	Improperly prepared container feed caused THC spike.	Revised feed prep and restarted unit.	0	0	3

B. CMS Performance

1. Has a CMS been inoperative (except for zero/low-level and high-level checks), out of control (as defined in 63.8(c)(7)(i)), repaired, or adjusted during this reporting period? ☒ Yes ☐ No

2. If you answered yes, complete the following table for each period a CMS was out of control, repaired, or adjusted: (63.10(c)(5)-(6), (10)-(12); 63.8(c)(8).

CMS Type	Mfg	Process ID	Start Date	Completion Date	Nature & Cause of Malfunction (if any)	Corrective Actions Taken or Preventative Measures Adopted	Nature of Repairs or Adjustments Made to Inoperable or OOC CMS
THC	CAI	Stack monitor #1	10/15/2009	10/15/2009	Instrument Drift	Manual Calibration	Manual Calibration
THC	CAI	Stack monitor #1	12/6/2009	12/6/2009	Instrument Drift	Manual Calibration	Manual Calibration
THC	CAI	Stack monitor #1	12/9/2009	12/9/2009	Instrument Drift	Manual Calibration	Manual Calibration
THC	CAI	Stack monitor #1	12/26/2009	12/26/2009	Instrument Drift	Manual Calibration	Manual Calibration
THC	CAI	Stack monitor #2	10/4/2009	10/4/2009	Instrument Drift	Manual Calibration	Manual Calibration
THC	CAI	Stack monitor #2	10/11/2009	10/11/2009	Instrument Drift	Manual Calibration	Manual Calibration
THC	CAI	Stack monitor #2	12/12/2009	12/12/2009	Instrument Drift	Manual Calibration	Manual Calibration

3. Indicate the total process operating time during the reporting period. (63.10(c)(13))

Total process operating time (days):

Days in reporting period:	184
Facility total process operating time (days):	158.75
Total days on waste:	156.41
Total days on fuels:	2.34

Section IV – Summary Report – Gaseous and Opacity Excess Emissions and CMS Performance

A. Report Date and Submittal Reporting Period

Indicate the reporting period covered by this submittal and the date of this summary report. (63.10(e)(3)(vi))

Reporting Period beginning date	Reporting Period ending date	Summary Report Date
July 1, 2009	December 31, 2009	January 31, 2010

B. Process Description and Monitoring Equipment Information

Complete the following process description and monitoring equipment information table for each affected source process unit:

Total operating time of affected source during the reporting period (days)
225,239 minutes of unit burning/ retaining hazardous waste; 3,369 minutes on virgin fuels.

Process unit name
Rotary Kiln Incineration System

Process unit description
Rotary kiln and ancillary equipment for combustion of hazardous wastes.

Emission and/or operating parameter limitations specified in the relevant standards
See Table 1 and 2 below.

TABLE 1 – APPLICABLE EMISSIONS STANDARDS

Emissions Parameter	Limit	Citation
Destruction and Removal Efficiency (DRE)	≥99.99%	40 CFR 63.1203(c)(1)
PCDDs/PCDFs	≤0.20 ng/dscm TEQ basis	40 CFR 63.1219(a)(1)(i)
HCl/Cl_2	≤ 32 ppmv dry as HCl	40 CFR 63.1219(a)(6)
Mercury	≤ 130 µg/dscm	40 CFR 63.1219(a)(2)
Semi volatile Metals (SVM)	≤ 230 µg/dscm	40 CFR 63.1219(a)(3)
Low Volatile Metals (LVM)	≤ 92 µg/dscm	40 CFR 63.1219(a)(4)
Totals Hydrocarbons	≤ 10 ppmv	40 CFR 63.1219(a)(5)(ii)
Particulate Matter (PM)	≤ 0.013 gr/dscf or 34 mg/dscm	40 CFR 63.1219(a)(7)

TABLE 2 – OPERATING PARAMETERS

Process Parameter (Tag ID)	Units	Avg. Period	Basis	Limit 10/1/2008 DOC
Minimum Feed Lance Atomization Pressure[1]	Psig	Instant.	Mfg. Rec.	30
Maximum SCC Pressure (PT-4307 & PT-4308)	In. w.c.	Reference September 4,2003 letter from US EPA Region 5 concerning this requirement.		
Maximum Temperature at ESP Inlet (TI-6002A/B)	°F	1-hr	CPT	428
Maximum Pumpable Waste Feed Rate (WQI-9000T)	Lb/hr	1-hr	CPT	27,988
Maximum Total Waste Feed Rate (WQI-9000F)	Lb/hr	1-hr	CPT	34,026
Minimum Kiln Temperature (TI-4300A/B)	°F	1-hr	CPT	1,760
Minimum SCC Temperature (TI-4310A/B)	°F	1-hr	CPT	1,795
Maximum Process Gas Flow rate (FI-7510A/B)	Scfm	1-hr	CPT	67,581
Minimum Loc. 1 Carbon Feed Rate (WI-7003)	Lb/hr	1-hr	CPT	

[1] Each liquid lance has a pressure switch. When the pressure drops below 30 psig on any lance the feed from that lance will be automatically cutoff. Tag Ids : PSL-3113 (High BTU), PSL-3123 (Organic), PSL-3143 (Aqueous), PSL-3133 (Sludge), PSL-3153 (Slurry), and PSL-3100A/B (Sludge 2).

Process Parameter (Tag ID)	Units	Avg. Period	Basis	Limit 10/1/2008 DOC
Minimum Loc. 2 Carbon Feed Rate (WI-7002)	Lb/hr	1-hr	CPT	
Minimum Loc. 1 Carbon Feed Pressure (PI-5732)	Psig	1-hr	CPT	2.9
Minimum Loc. 2 Carbon Feed Pressure (PI-7132)	Psig	1-hr	CPT	3.0
Maximum Ash Feed Rate (WQI-9000AH)	Lb/hr	12-hr	CPT	8,440
Minimum Ring Jet Pressure Drop (DPI-7401)	in. w.c.	1-hr	CPT	27.0
Minimum Scrubber (1st and 2nd Packed Bed, combined) Liquid Flow Rate (FQI-7201)	gpm	1-hr	CPT	1,309
Minimum Scrubber (Ring Jet) Liquid Flow Rate (FI-7404A/B)	gpm	1-hr	CPT	454
Minimum Scrubber (Ring Jet) Blowdown (FI-7403)	gpm	1-hr	CPT	27.0
Minimum Scrubber (Ring Jet) Tank Level (LIC-7401)	feet	1-hr	CPT	1.7
ESP Parameters	The ESP is operating with all fields available with set points of 45,000 volts and 90 sparks per minute, each field; and minimum current of 100 milliamps, each field (see US EPA letters dated Dec. 10 and Dec. 27, 2003).			
Minimum Scrubber (1st and 2nd Packed Bed, combined) Feed Pressure	in. w.c.	1-hr	Mfg. Rec.	Not Req'd.
Minimum Scrubber (1st and 2nd Packed Bed) Pressure Drop	in. w.c.	1-hr	Mfg. Rec.	1.3
Minimum Scrubber (3rd Stage) Liquid pH (AI-7307A/B)	pH units	1-hr	Prior Testing	7.5
Maximum Total Chlorine Feed Rate (WQI-9000CL)	Lb/hr	12-hr	Prior Testing	2,828
Maximum Total Semi volatile Metals Feed Rate (WQI-9000SV)	Lb/hr	12-hr	Prior Testing	77.1
Maximum Total Low Volatile Metals Feed Rate (WQI-9000LV)	Lb/hr	12-hr	Prior Testing	400
Maximum Total Pumpable Low Volatile Metals Feed Rate (WQI-9000PLV)	Lb/hr	12-hr	Prior Testing	400
Maximum Total Mercury Feed Rate (WQI-9000M)	lb/hr	12-hr	Prior Testing	0.82
Stack THC (AI-7850)	ppmv	1-hr	Regulatory Requirement	<10

Monitoring Equipment Information

Monitored Parameter	Latest Certification or Audit Date	Instrument Description	Tag No. / Comments
ESP Inlet Temperature	**11/18/09**	Rosemount Transmitter / Thermocouple	Tag # TT-6002A/B (Redundant Instruments)
Kiln Inlet Shroud Pressure	**11/5/09**	Rosemount Pressure transducer	Tag # PT-4307
Kiln Outlet Shroud Pressure	**12/5/09**	Rosemount Pressure transducer	Tag # PT-4306
Kiln Temperature	(A) **8/21/09** (B) **3/11/09**	Land CD1 / Laser Thermometer	Tag # TT-4300A/B (Redundant Instruments)
Secondary Combustion Chamber Temperature	(C) **8/21/09** (D) **11/23/09**	Land CD1 / Laser Thermometer	Tag # TT-4310A/B Redundant Instruments
Flue Gas Flow Rate (Stack)	**12/9/09**	United Sciences Ultrasonic Gas Flow	Tag #FT-7805 Used in calculation of Process Flow
Flue Gas Flow Rate (Reheat)	**12/9/09**	United Sciences Ultrasonic Gas Flow	Tag #FT-7710 Used in calculation of Process Flow
Flue Gas Flow Rate (Scrubber Outlet)	**12/9/09**	United Sciences Ultrasonic Gas Flow	Tag # FT-7510B This is a redundant instrument for flue gas flow rate. (Redundant with Tag # FI-7510A)
Total Hydrocarbon Analyzer (Stack)	**12/9/09**	VIG Industries FID (Flame Ionization Detector)	Tag # AI-7850A/B (Redundant Instruments)
Scrubber Ring Jet Liquid Flow Rate	**10/7/09**	Rosemount Transmitter / Differential Pressure	Tag # FT-7404 A
Scrubber Ring Jet Liquid Flow Rate	**10/7/09**	Panametrics Ultrasonic Flow	Tag # FT-7404 B
Scrubber First Packed bed flow rate	**10/7/09**	PolySonics Doppler Flow	Tag # FT-7204 A
Scrubber First Packed bed flow rate	**10/7/09**	Panametrics Ultrasonic Flow	Tag # FT-7204 B

Monitored Parameter	Latest Certification or Audit Date	Instrument Description	Tag No. / Comments
Scrubber Second Packed bed flow rate	10/7/09	PolySonics Doppler Flow	Tag # FT-7304 A
Scrubber Second Packed bed flow rate	11/18/09	Panametrics Ultrasonic Flow	Tag # FT-7304 B
Scrubber Second Packed Bed Liquid PH	11/18/09	Electro-Chemical Devices	Tag # AT-7307A/B
Carbon Feed Rate Loc. 2	12/12/09	Generic Load Cell / Loss in Weight Feeder	Tag # WT-7002
Carbon Feed Rate Loc. 1	12/12/09	Generic Load Cell / Loss in Weight Feeder	Tag # WT-7003
Carbon Carrier Fluid Pressure Loc. 2	11/11/09	Rosemount Transmitter / Pressure	Tag # PT-7132
Carbon Carrier Fluid Pressure Loc. 1	11/11/09	Rosemount Transmitter / Pressure	Tag # PT-5732
High Btu Lance Atomizing Pressure	11/5/09	Generic pressure switch	Tag # PSL-3113
Organic Lance Atomizing Pressure	11/5/09	Generic pressure switch	Tag # PSL-3123
Aqueous Lance Atomizing Pressure	11/5/09	Generic pressure switch	Tag # PSL-3143
Sludge Lance Atomizing Pressure	11/5/09	Generic pressure switch	Tag # PSL-3133
Slurry Lance Atomizing Pressure	11/5/09	Generic pressure switch	Tag # PSL-3153
Sludge 2 Lance Atomizing Pressure	11/5/09	Generic pressure switch	Tag # PSL-3100A/B
Pumpable Hazardous Waste Feed Rate	10/14/09	Micromotion Mass Flow Meter	Tag # FT-3110 High BTU Lance
Pumpable Hazardous Waste Feed Rate	10/14/09	Micromotion Mass Flow Meter	Tag # FT-3120 Organic Lance
Pumpable Hazardous Waste Feed Rate	10/14/09	Micromotion Mass Flow Meter	Tag # FT-3140 Aqueous Lance
Pumpable Hazardous Waste Feed Rate	Not Applicable (calculation)	Positive displacement pump	Tag # FT-3150 Slurry Lance
Pumpable Hazardous Waste Feed Rate	Not Applicable (calculation)	Positive displacement pump	Tag # FT-3130 Sludge Lance
Pumpable Hazardous Waste Feed Rate	12/12/09	Generic Load Cell (Loss in weight calculation)	Tag # WT-3050 Drum Scale A Feeds Multiple Lances
Pumpable Hazardous Waste Feeds	12/12/09	Generic Load Cell (Loss in weight calculation)	Tag # WT-3055 Drum Scale B Feeds Multiple Lances

Monitored Parameter	Latest Certification or Audit Date	Instrument Description	Tag No. / Comments
Pumpable Hazardous Waste Feeds	**12/12/09**	Generic Load Cell. Loss in weight calculation	Tag # WT-3060 Tanker Scale A (South Bay) Feeds Multiple Lances
Pumpable Hazardous Waste Feeds	**12/12/09**	Generic Load Cell. Loss in weight calculation	Tag # WT-3065 Tanker Scale B (East Bay) Feeds Multiple Lances
Kiln Drum feed Weight Feeder	**12/12/09**	Generic Load Cell (Scale)	Tag # WT-3081 Front wall Drum Scale
Kiln Bulk Feed Crane	**12/12/09**	Generic Load Cell (Scale)	Tag # WT-3105 Front wall Crane Scale
Conveyor Scale Drum Processing	**12/12/09**	Generic Load Cell (Scale)	Tag # WT-3070 Feeds ARTS
Conveyor Scale Monorail Alter	**12/12/09**	Generic Load Cell (Scale)	Tag # WT-4050 Feeds ARTS
Floor Scale Drum Processing	**12/12/09**	Generic Load Cell (Scale)	Tag # WT-3075 Feeds ARTS
Floor Scale Drum Processing Lab Pack	**12/12/09**	Generic Load Cell (Scale)	Tag # WT-3080 Feeds ARTS
Splitting Scale Monorail	**12/12/09**	Generic Load Cell (Scale)	Tag # WT-3040 Feeds ARTS
Floor Scale Drum Processing - Portable	**12/12/09**	Generic Load Cell (Scale)	Tag # WT-3076 Feeds ARTS

Monitored Parameter	**Latest Certification or Audit Date**	**Instrument Description**	**Tag No. / Comments**
Ring Jet Blow Down	**10/7/09**	Panametrics Ultrasonic Flow	Tag # FT-7403A/B
Ring Jet Vessel Level	**(E) 11/7/09** (F) **11/7/09**	Rosemount Transmitter/ Pressure	Tag # LT-7401A/B
Stack Oxygen Analyzers (wet and dry)	**4/28/09**	Ametek	Tag # AI-7860A/B (Redundant Instruments)
Ring Jet Differential Pressure	**11/7/09**	Rosemount Transmitter/ Pressure	Tag # DPT-7405A/B
Scrubber 1st Packed Bed Differential Pressure	**11/9/09**	Rosemount Transmitter /Pressure transducer	Tag # DPI-7207
Scrubber 2nd Packed Bed Differential Pressure	**11/9/09**	Rosemount Transmitter /Pressure transducer	Tag # DPI-7307

C. Emission Data Summary

Complete the following emission data summary table for each affected source: (63.10(e)(3)(vi)(l))

Total duration of excess emission / parameter exceedances (minutes for opacity, hours for gases)

Excess Emissions	Total Duration(min)	Total Operating time of affected source during the reporting period (min)	% Of total source operating time during which excess emissions occurred
Maximum Ash Feed Rate (WQI-9000AH)	0	228,608	0.00%
Maximum Process Gas Flowrate (FI-7510A/B)	47.98	228,608	0.02%
Maximum Pumpable Waste Feed Rate (WQI-9000T)	0	228,608	0.00%
Maximum SCC Pressure (PI-4300A/B)	22.9	228,608	0.01%
Maximum Temperature at ESP Inlet (TI-6002A/B)	0	228,608	0.00%
Maximum Total Chlorine Feed Rate (WQI-9000CL)	0	228,608	0.00%
Maximum Total Low Volatile Metals Feed Rate (WQI-9000LV)	0	228,608	0.00%
Maximum Total Mercury Feed Rate (WQI-9000M)	0	228,608	0.00%
Maximum Total Pumpable Low Volatile Metals Feed Rate (WQI-9000PLV)	0	228,608	0.00%
Maximum Total Semi volatile Metals Feed Rate (WQI-9000SV)	0	228,608	0.00%
Maximum Total Waste Feed Rate (WQI-9000F)	0	228,608	0.00%
Minimum Feed Lance Atomization Pressure	0	228,608	0.00%
Minimum Kiln Temperature (TI-4300A/B)	259.03	228,608	0.11%
Minimum Loc. 1 Carbon Feed Pressure (PI-5732)	176.15	228,608	0.08%
Minimum Loc. 2 Carbon Feed Pressure (PI-7132)	82.1	228,608	0.04%
Minimum Loc. 1 Carbon Feed Rate (WI-7003)	168.13	228,608	0.07%
Minimum Loc. 2 Carbon Feed Rate (WI-7002)	5	228,608	0.00%
Minimum Ring Jet Pressure Drop (DPI-7401)	0	228,608	0.00%

Excess Emissions	Total Duration(min)	Total Operating time of affected source during the reporting period (min)	% Of total source operating time during which excess emissions occurred
Minimum SCC Temperature (TI-4310A/B)	335.3	228,608	0.15%
Minimum Scrubber (1st and 2nd Packed Bed) Pressure Drop	0	228,608	0.00%
Minimum Scrubber (1st and 2nd Packed Bed, combined) Feed Pressure	0	228,608	0.00%
Minimum Scrubber (1st and 2nd Packed Bed, combined) Liquid Flow Rate (FQI-7201)	221.12	228,608	0.10%
Minimum Scrubber (3rd Stage) Liquid pH (AI-7307A/B)	0	228,608	0.00%
Minimum Scrubber (Ring Jet) Blowdown (FI-7403)	30	228,608	0.01%
Minimum Scrubber (Ring Jet) Liquid Flow Rate (FI-7404A/B)	0	228,608	0.00%
Minimum Scrubber (Ring Jet) Tank Level (LIC-7401)	0	228,608	0.00%
THC	1363.05	228,608	0.60%
ESP Controls	189.64	228,608	0.08%
Total Duration	**2900.40**	228,608	1.27%

Summary of causes of excess emissions / parameter exceedances (% of total duration by cause):

TYPE	Sum Of Duration	% of Total Duration
Startup/shutdown	662.1	22.83%
Control Equipment Problems	741.8	25.58%
Process Problems	690.5	23.81%
Other unknown causes	485.50	16.74%
Other known causes	320.5	11.05%
	2900.40	100.00%

D. CMS Performance Summary

Complete the following CMS performance summary table for each affected source: (63.10(e)(3)(vi)(J))

Total duration of CMS downtime[1]
0 minutes

Total operating time of affected source during the reporting period
228,608 min

Percent of total source operating time during which CMS were down
0.00 %

[1] Heritage-WTI, Inc. maintains redundant CMS equipment to prevent CMS downtime.

Summary of causes of CMS downtime (percent of downtime by cause)	
Monitoring equipment malfunctions	0
Non-monitoring equipment malfunctions	0
Quality assurance / quality control calibrations	0
Other known causes	0
Other unknown causes	0

E. CMS, Process, or Control Changes

1. Have you made any changes in CMS, processes, or controls since the last reporting period?
   ☐ Yes ☒ No (if no, end of form) (63.10(2)(3)(vi)(K))

2. If you answered yes, please describe the changes below:

END OF REPORT